

**REMARKS/ARGUMENTS****I. Status of Claims**

The following original claims have been introduced back to this application: 3, 7, and 8. Cancelled claims are: 9-12, 14, 16 and 18-19. Applicant amended claims 1, 17 and 20 that find basis in the original specification. No new matter has been inserted into the amended claims. Pending claims are: 1-8, 13, 15, 17 and 20.

**II. Specification**

To make more clear invention, Applicant requested to substitute the second paragraph of the application with a new paragraph.

**III. Claim Rejections 35 USC § 112**

Applicant substantially revised the claims to address the issues stated by the Examiner.

**IV. Claim Rejections 35 USC § 102**

Applicant is asking to remove the reference Weiss et al (US Patent 5,990,479). The disclosed invention by Weiss et al does not teach about the plasmon-induced multiband optical sensing argued by Applicant as being essential in his instant invention. The Weiss et al invention teaches about the immunoassay method based upon the single narrow band emission of the luminescent semiconductor nanocrystal. The attached molecules and linking agents to the nanocrystal are modifying luminescent properties of the nanocrystal that is monitored in immunoassays proposed by Weiss et al. The Applicant invention is very different from the Weiss et al invention. Applicant proposes optochemical sensing by monitoring plasmon-induced multiband spectral properties of the molecule and in the proposed method there is no requirement that the nanoparticle (nanocrystal) must be luminescent. Applicant substantially revised the second paragraph

and the instant claims to support his arguments of the instant invention. Reconsideration and withdrawal of this rejection are respectfully requested, and Applicant earnestly requests prompt allowance of the pending claims.

**V. Conclusion**

All outstanding issues have been addressed. Taking into consideration the totality of the application as filed (i.e., the specification, claims and drawings), the currently amended application is in compliance with 35 USC § 112.

Sincerely,



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01/30/07  
Date